

## REMARKS

Claims 1-4, 6-13 and 15-25 are pending in the present application. Claims 1-3, 6, 9-13, 16-19, 24, and 25 have been rejected under § 103 as being unpatentable over Valfre, US Patent 6,684,975 (Valfre) in view of Ishizuka et al., US Patent 6,259,325 (Ishizuka). Claims 4, 7, 8, and 15 are allowable. Claims 20-23 are allowed.

An IDS is being submitted with this Amendment. Applicants respectfully request that the Examiner consider the references listed in the IDS.

Allowable claim 4 has been rewritten as amended claim 1.

Allowable claim 15 has been rewritten as amended claim 13.

### Prior Art Rejections

As mentioned above, claims 1-3, 6, 9-13, 16-19, 24, and 25 have been rejected under § 103 as being unpatentable over Valfre in view of Ishizuka

Independent claim 9 recites a method of transforming a singled-ended RF signal to a differential RF signal in an RF power amplifier including "providing a silicon semiconductor device," "forming an RF power amplifier on the semiconductor device," "forming a transformer on the semiconductor device, the transformer having a primary side with first and second nodes, and a secondary side with first and second nodes," "coupling a single ended RF input signal to the first node on the primary side of the transformer and coupling an RF ground signal to the second node on the primary side of the transformer to generate a differential RF signal at the first and second nodes on the secondary side of the transformer," "coupling the first and second nodes of the secondary side of the transformer to the RF power amplifier," and "coupling a predriver circuit between the transformer and the RF power amplifier."

In the Office Action, it is alleged that Figure 5 of Valfre discloses circuit comprising amplifier A, a transformer having P1, S1, P2, S2 with primary side P1 receiving an input signal connected to P1 and a reference node connected to the other node at P1. Valfre discloses differential amplifiers inserted in a telephone line, and is used to raise the transmission level. (Valfre, Col. 1, lines 4-11). Signals on a telephone line are differential signals. It is therefore believed that Valfre does not teach or suggest a method of method of transforming a singled-ended RF signal to a differential RF signal, as recited in claim 9. In addition, if P1 in Figure 5 of Valfre is considered to be the primary side of a transformer, neither node of P1 is coupled to an RF ground signal, as required by claim 9.

For at least these reasons, applicant asserts that claim 9 is allowable over the prior art. Since dependent claims 10-12 and 24-25 depend from claim 9, it is also believed that these claims are allowable over the prior art.

#### Conclusion

It is respectfully submitted that all claims are patentable over the prior art. It is further more respectfully submitted that all other matters have been addressed and remedied and that the application is in form for allowance. Should there remain unresolved issues that require adverse action, it is respectfully requested that the Examiner telephone Bruce A. Johnson, Applicants'

Attorney at 512-301-9900 so that such issues may be resolved as expeditiously as possible.

Respectfully Submitted,



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